# Authority/Purpose, Waste Management, Classification, Permit Application, Training, Definitions and BINGO!

Sarah Starr



### 33-21-02-01 Authority

The state department of health has been authorized to provide and administer this chapter relating to septic system servicing under the provisions of North Dakota Century Code section 61-28-04.1.



### 33-21-02-02 Scope & Purpose

This chapter establishes procedures governing the servicing of septic systems, including portable restrooms, holding tanks, and similar devices that receive domestic wastewater and establishes standards for the use and disposal of wastewater from those sources while protecting the general public and waters of the state from contamination by septage.





### Waste Management



• Under a sanitary pumper license from the Division of Water Quality, pumpers ARE licensed to pump septage from devices that receive domestic wastewater.

Ex: septic systems, cesspools, privies, chemical toilets, and holding tanks





- A septic servicing permit DOES NOT cover the pumping of:
  - Grease Traps
  - Carwash Pits
  - Shop Pits
  - Fish Cleaning Stations, etc.

Contact the Division of Waste Management 1-701-328-5166





A septic servicing permit DOES NOT cover the removal of sewage sludge from facilities or operations that treat sewage.

Contact the U.S. EPA Biosolids Coordinators 1-913-551-7637 or 1-913-551-7354



### Waste Management

Any mixture of domestic and non-domestic septage (e.g., in a pumper truck or holding tank) will cause the entire batch of septage to be considered non-domestic septage and is NOT covered under this permit.

Domestic Septage + Non-Domestic Septage

Rond Domestic Septeme

Rion Covered



### Septic Pumper Classification

### Class I

Septic system servicers that operate 3 or more permitted servicing vehicles or at least 1 portable toilet-servicing vehicle

### Class II

All septic system servicers not classified as Class I



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A person wishing to engage in the business of servicing septic systems, portable restrooms, holding tanks, and similar devices that receive domestic wastewater shall submit an application for a permit to the department on a form provided by the department.

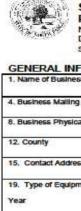


- Permit Application Components
  - Completed Application Forms
  - Annual Report
  - Fee
  - Annual Exam
  - In-Person Training Certificate (good for 5 years)



General Information

SFN 4869



### APPLICATION FOR SANITARY PUMPER PERMIT SERVICING OF SEPTIC OR HOLDING TANKS. PRIVIES, OR PORTABLE RESTROOMS

NORTH DAKOTA DEPARTMENT OF HEALTH DIVISION OF WATER QUALITY SFN 4869 (12/13)

_	FOR	DEPT. USE	ONLY
ľ	Date R	Received	
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GENERAL INFORM	IATION	NEW APP	LICATION	RENEWAL APPL	LICATION	
1. Name of Business		2. Name of Owner		Owner Telephone Number		
4. Business Mailing Addres	56	5. City	÷	6. State/Province	7. ZIP code	
8. Business Physical Addr	ess (if different than mailing):	9. City		10. State/Province	11. ZIP code	
12. County	13. Contact Person First	Last		14. Contact Telepho	ne Number	
15. Contact Address		16. City		17. State/Province	18. ZIP code	
19. Type of Equipment		J.		20. Number of Servi	cing Units	
Year	Make/Model	Gallons				
Year	Make/Model	Gallons				
22. Types of Waste Hand	ed (check all that apply):					
Crew Camps	Portable Restrooms	☐ RV/Camp	ers	23. Sanitary Pumpe		
☐ Holding Tanks		Other		Class II Class II		
	Residential	Other		Ctass I		
ATTACHMENTS PIE			application packet	Class I		
24. Have you held a sanita	ease check yes or no to indicate if di ary pumper permit in North Dakota v	ocument is included in		Class I	Class II  ND Dept. of Health	
24. Have you held a santta YES-Attach annual rep	ease check yes or no to indicate if di ary pumper permit in North Dakota v	ocument is included in		Class I	Class II  ND Dept. of Health	
24. Have you held a santa  YES-Attach annual rep  25. A copy of a North Dak  YES NO	hase check yes or no to indicate if di ary pumper permit in North Dakota v nort NO	ocument is included in within the past five year	26. Permit Fee	27. Enclosed Fee	ND Dept. of Health Division of Accounting	
24. Have you held a sanital YES-Attach annual rep 25. A copy of a North Dak YES NO 28. A list of proposed disp YES NO	hase check yes or no to Indicate if di ry pumper permit in North Dakota v nort NO ota State Training Certificate	ocument is included in within the past five year	26. Permit Fee	27. Enclosed Fee	ND Dept. of Health Division of Accounting Date Received:	

### SIGNATURE

RETURN COMPLETED APPLICATION TO:

North Dakota Department of Health Division of Water Quality 918 East Divide Avenue, 4th Floor Bismarck, ND 58501-1947

Telephone: (701) 328-5210 Fax: (701) 328-5200

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that gualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

30. Printed name of applicant(s)	31. Title	
32. Signature of applicants(s)	33. Date	



Permitted Disposal Sites

SFN 60533



PERMITTED DI	SDOSAL SILES		
SANITARY PUI NORTH DAKOTA D DIVISION OF WAT SFN 60533 (12/13)		Date Received	
GENERAL INFORMATION			8
1. Name of Business			
PROPOSED DISPOSAL SITES			
Wastewater Treatment Facilities:			
2. NDPDES Permit Number	3. Facility Name	4. Type of Treatment Facultative Lagoon Mechanical Treatme	Other, Describe:
5. Printed Name of Representative	6. Signature of Representative	7. Title	8. Date
9, NDPDES Permit Number	10. Facility Name	11. Type of Treatment Facultative Lagoon Mechanical Treatme	Other, Describe:
2. Printed Name of Representative	13. Signature of Representative	14. Title	15. Date
16. NOPDES Permit Number	17. Facility Name	18. Type of Treatment Facultative Lagoon Mechanical Treatme	Other, Describe:
9. Printed Name of Representative	20. Signature of Representative	21. Title	22. Date
23. NDPDES Permit Number	24. Facility Name	25. Type of Treatment Facultative Lagoon Mechanical Treatme	Other, Describe:
26. Printed Name of Representative	27. Signature of Representative	28. Title	29. Date

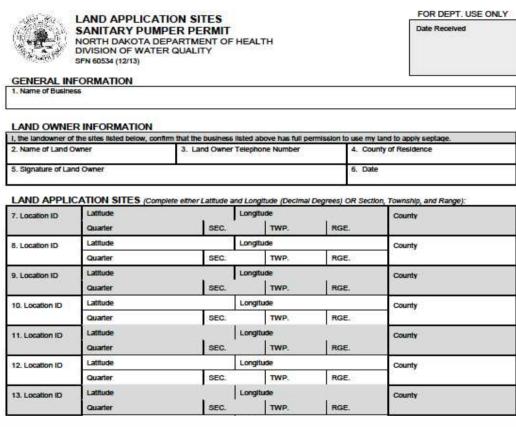
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### PROPOSED DISPOSAL SITES

Wastewater Treatment Facilities:			
2. NDPDES Permit Number	3. Facility Name	4. Type of Treatment Facultative Lagoon	Other, Describe:
		Mechanical Treatment	
5. Printed Name of Representative	6. Signature of Representative	7. Title	8. Date

Land Application
Sites
(1 sheet/landowner)

SFN 60534



LAND APPLICATION SITES (Complete either Latitude and Longitude (Decimal Degrees) OR Section, Township, and Range):

7. Location ID	Latitude		Longitude			1	County	
	Quarter	SEC.		TWP.		RGE.		
<u> </u>		VVV	Bismarck, ND 58	Avenue, 4 <sup>th</sup> Floor 8501-1947	15. Printed	name of applicant(s)	1	15. Title
NORTH DAK			Telephone: (7) Fax: (7)	01) 328-5210 01) 328-5200	17. Signatu	re of applicants(s)		18. Date

Additional Land Application Site Information

Class I Only

LAND APPLICATION SITE APPROVAL-CLASS I SANITARY PUMPER PERMIT

NORTH DAKOTA DEPARTMENT OF HEALTH DIVISION OF WATER QUALITY

Example Form to Submit Land Application Information for Site Approval

AND APPLICATION SITES CLASS I PLIMPERS

Date Received

Name of Business     Name of L			s) OR Section, Township, and Range): e of Land Owner		Landowner Telephone Number		none Number	
4. Street Address	of Site	City				State/Prov	Ince	ZIP Code
5. Directions to th	e Site					l		
6. Location ID	Latitude		Longitu	ide			County	
	Quarter	SEC.		TWP.	RGE	i.	1	
7. Type of Vegetal Range Fallow	Forest	325	Crop Type:		lbs/acre			
9. Soli Type: <i>Ched</i> Sand Loam	Basis for Estimation:		asonally High					
11. Approximate S	12. Acreage Available for Land Application		1	13. This si months: YES		tilized during winter		
	ation and Maintenance Plan (I lan for summer and winter usa		for acces	is control along wi	th the t			istes to be manag





Annual Report Form

### ANNUAL REPORT Date Received SANITARY PUMPER PERMIT NORTH DAKOTA DEPARTMENT OF HEALTH DIVISION OF WATER QUALITY GENERAL INFORMATION 1. Name of Business DISPOSAL SITES USED Wastewater Treatment Facilities and Multiple-Use Land Application Sites: 12. 13. SINGLE FAMILY RURAL RESIDENTIAL 14. Did You Perform Single Family Rural Residential jobs During the Previous Permit Year? TYPES OF PATHOGEN & VECTOR CONTROL REQUIREMENTS 15. If You Land Applied Septage During the Previous Permit Year, Select the Type(s) of Pathogen & Vector Control Requirements Used: ☐ Incorporation Within 48 Hrs pH Treatment (lime) Other, Describe: TOTAL VOLUME OF SEPTAGE HANDLED 16. Total Volume of Septage Handled During Previous Permit Year in Gallons SPILL INFORMATION 17. Did Any Spills Occur During The Previous Permit Year? Yes, The Department Was Contacted Yes, The Department Was Not Contacted Describe: No Spills Occurred

Receipts, Maps, etc.)\*

\*Additional Annual Report Information May Also Be Included With Application (Ex: Logs, Spreadsheets,

Telephone: (701) 328-5210

(701) 328-5200

RETURN COMPLETED APPLICATION TO:

North Dakota Department of Health Division of Water Quality 918 East Divide Avenue, 4th Floor Bismarck, ND 58501-1947

# Questions ?????

- Fees
  - New Applicant
    - \$100 Application Fee
    - \$50 per Servicing Vehicle
  - Renewal Applicant
    - \$50 per Servicing Vehicle
- Permit replacement \$25
  - Ex: lost or damaged plates



Fees



- Applicant w/ ND State Plumbing License & 1 Servicing Unit
  - No Fees required when a copy of the license is submitted (New Applicants & Renewal Applicants)
  - \* Late Fee still applies
- Applicant w/ ND State Plumbing License w/ >1 Servicing
   Units
  - \$100 Application Fee (New Applicants)

\$50 per Servicing Vehicle

Type of Application	Completed Application	Additional Land Application Site Information	Annual Report	Fee	Annual Exam & 5- yr Training Certificate
<u>Class I</u>					
New Permit	✓	✓		✓	✓
Renewal	✓	✓	✓	✓	✓
<u>Class II</u>					
New Permit	✓			✓	✓
Renewal	✓		✓	✓	✓
ND Licensed Plumber					
1 Service Unit	✓	Class I - ✓ Class II - No	✓	*	✓
≥ 2 Service Units	✓	Class I - ✓ Class II - No	✓	✓	✓



<sup>\*</sup> Must send copy of ND Plumber License with application

- Permit Expiration
  - December 31, of each year
- Application Grace Period
  - March 1, of each year
- After March 1<sup>st</sup> of Each Year
  - Treated as new application (\$100 fee)
  - Until the new permit application is approved by the department, a septic system servicer is not permitted to operate



- Permit transfers.
  - Must notify department upon sale or transfer of business within 90 days
  - New owner must submit a written agreement to comply with the permit's terms, signed by both parties
  - Permit expires on December 31 and then submit a renewal application



### Training

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### **Annual Exam**

### Who

- Septic system servicers and their employees engaged in the servicing of septic systems
- Passing score of 70%

### Online

- <a href="http://www.ndhealth.gov/WQ/S">http://www.ndhealth.gov/WQ/S</a>
  <a href="mailto:epticPumperExa">epticPumper/SepticPumperExa</a>
  <a href="mailto:ms.htmWrittenExam">ms.htmWrittenExam</a>
- Contact Department at 701-328-5210

### **Training Course**

- Septic system servicers are required to attend a training course provided by the department once every 5 yrs
- Includes written exam
- Other sources of education may be substituted with the department's prior approval.



### Definitions & Questions

# BINGO!!!



# Vehicles & Equipment, Spills, Records & Reporting

Sarah Starr



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- Wastewater Worker Personal Protective Equipment (PPE)
  - Goggles or face shield-protect eyes from splashes of domestic septage
  - Face mask (e.g., surgical mask)-to protect nose and mouth from splashes of human wastes.
  - Impermeable or fluid-resistant coveralls-to keep domestic septage off clothing
  - Waterproof gloves (such as rubber)-to prevent exposure of hands to domestic septage
  - Rubber boots-to prevent exposure of feet to domestic septage.



### Wastewater Worker PPE

HAZARD	PPE OPTIONS
Splash to Face	Goggles, face shield, enhanced face shield (seals to face and includes particulate respirator)
Hand Protection	Impermeable gloves (latex, nitrile) plus mechanical protection (leather glove) or heavy butyl rubber glove
Splash to Body	Diposable Tyvek suit, Tyvek boot covers, Tyvek breathes (i.e. has opening or pores in the fabric structure
Immersion (standing water)	Coated Tyvek (Tychem QC) suite, waterproof boots (dielectric boots), waders
Accidental Ingestion	Good hygiene practices



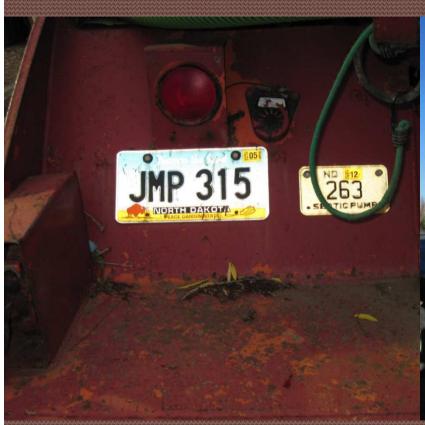
- Wastewater Worker Basic Hygiene Practices
  - Wash skin with soap and water immediately after handling septage, or any materials that have been in contact with septage.
  - Avoid touching face, mouth, eyes, nose, or open sores and cuts while handling septage or any materials that have come into contact with septage.
  - Wash your hands with soap and water before eating and drinking after you have handled septage.
  - Eat in designated areas away from domestic septage.
  - Do not smoke or chew tobacco or gum while handing human waste or any material that have been in contact with septage.
  - Cover open sores, cuts, and wounds with clean, dry bandages.



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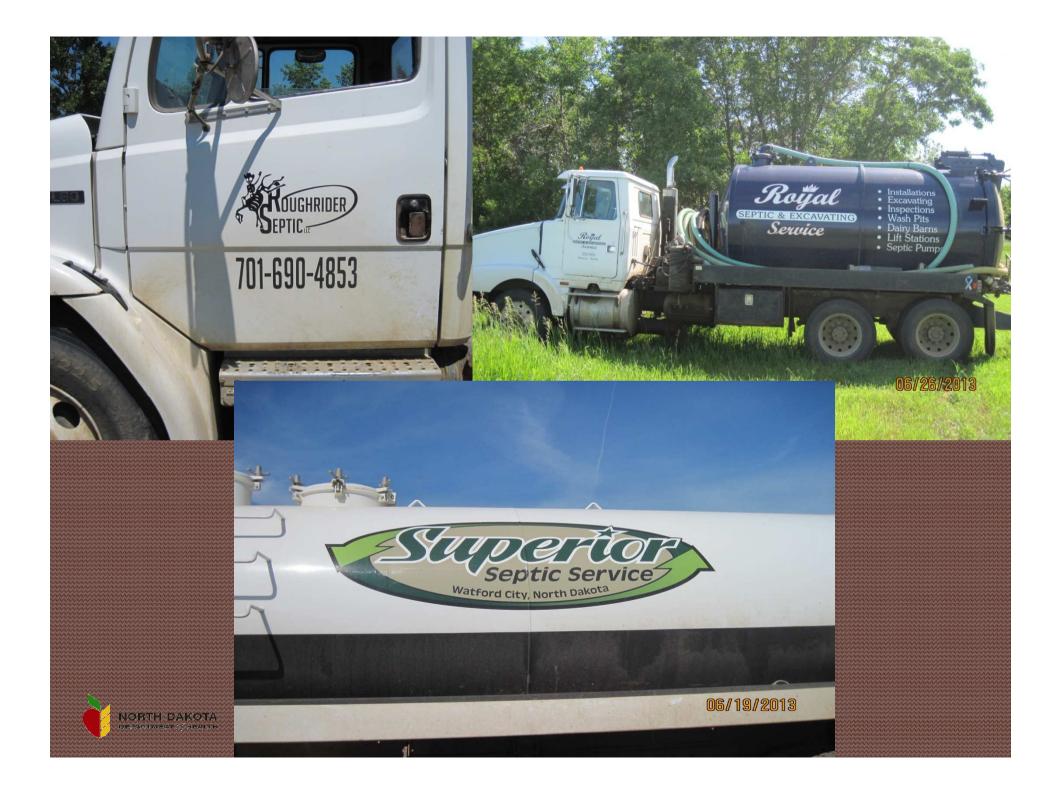
- Septic system servicers shall allow the department to inspect equipment used in servicing at reasonable times and places designated by the department.
- Vehicle identification requirements
  - A prominently displayed septic pumper plated on rear of servicing vehicle.
  - Company's name shall be displayed on side of vehicle in writing no less than 3 inches tall and ½ inch minimum thickness in a color distinct from background.











- Trucks and equipment shall be maintained in good working condition.
- Used for the hauling or servicing of septage or municipal wastewater treatment sludge (must have proper permit through Division of Waste Management) and for no other purpose. However, the use of the vehicle for fire protection service, oil recovery, and industrial wastes not regulated under this chapter, is permissible if the tank is flushed or cleaned as necessary prior to and after use
- Stored in a manner which will not cause a public nuisance



- All approvable holding tanks or containers shall be attached to the vehicle by welding or bolts on a truck chassis or trailer.
  - Holding tanks shall be constructed of suitable metal or materials approved by the department.
  - Each tank shall be strong enough for all conditions of operation, leak proof, contain inertia baffles, and designed to be kept tightly closed to prevent spillage or escape of odors while in transit or storage.
  - Discharge valves on tanks shall be watertight, capped when not in use, and constructed and located so as to permit unobstructed discharge.



- Pumps shall be adequate for the required service. The installation shall be designed to prevent backflow or leakage. Connections shall be provided with caps or seals.
- Hoses and piping, when not in use, shall be stored in a manner to prevent leakage or dripping of septage in transit.
- All servicing equipment used for land application of septage shall have a splash plate or some other department-approved method or device to facilitate uniform septage application in land spreading.
- Equipment cleaning facilities shall be designed to prevent a public nuisance





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- Summary
  - Safety
    - When working around or handing wastewater, safety is important. All precautions should be taken to avoid exposure to wastewater by both yourself and others. Trucks should be maintained and cleaned regularly.



- Summary
  - Handling
    - Nitrile Industrial Grade Protective Gloves should be worn under your work gloves to help protect against exposure or contamination.



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- Summary
  - Transportation
    - Inspect and maintain your truck regularly for a safe operating platform. Do not overfill your truck. Be careful to fill your truck in a such a manner that it can traverse the land upon which you are going to land apply the wastewater.
    - Remember that truck with a tank that is half-filled will have significantly different breaking characteristics than those of a truck that has been completely filled. Also, depending on the septage you have pumped, you may be carrying a denser liquid than normal.



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### Summary

- Transportation Continued...
  - Always check for leaking seals and joints after every service stop.
  - You are carrying wastewater and if there is a spill of any kind, you must report it.
  - Observe all traffic laws and never exceed the speed limit or safe handling limits of your vehicle. If you cross state lines or the Canadian border, you are responsible for knowing the laws of the state or country that pertain to wastewater transportation and disposal.



# Spill Reporting & Clean-up

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### • NDAC33-16-01.1-11 states that:

- \*Any spill or discharge of waste which causes or is likely to cause pollution of waters of the state must be reported immediately. The owner, operator, or person responsible for a spill or discharge must notify the department as soon as possible (701-328-5210) or the North Dakota hazardous materials emergency assistance and spill reporting number (1-800-472-2121) and provide all relevant information about the spill. Depending on the severity of the spill or accidental discharge, the department may require the owner or operator to:
  - Take immediate remedial measures;
  - Determine the extent of the pollution to waters of the state;
  - Provide alternate water sources to water users impacted by the spill or accidental discharge; or
  - Any other actions necessary to comply with this chapter.



### Spill Reporting & Clean-up

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- Septic system servicers shall report all spills to the department ASAP, but within 24 hours. The septic system servicer shall keep a copy of the spill report for 5 years. The report includes:
  - Spill location
  - Spill volume
  - Type of material spilled
  - Steps taken to clean up the spill
- Report a spill
  - http://www.ndhealth.gov/ehs/eir/NonOilField/
  - 701-328-5210 or 701-328-5166



### Spill Reporting & Clean-up

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- Septage shall be transported in a manner where it will not leak or spill onto public roads or into areas where it could enter surface or ground water. A written procedure for spill and accident clean-up must be kept in each permitted servicing vehicle. When a spill occurs, septic system servicers shall:
  - Contain the spill to minimize the impact to the environment and public
  - Notify the department
  - Clean the area to render it harmless to humans and the environment
  - Properly dispose of the spilled material



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- Keep records of all servicing and disposal activities for a minimum of 5 years.
- Records must be available to the department for review upon request
- Records must contain:
  - The origin of the septage
  - The location of the site where the septage is applied or taken
  - The number of acres to which the septage is applied at each site
  - The date and time of each septage application
  - Crop or vegetation on each site during the year
  - The gallons of septage which are applied to the site during the specified 365 day period



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- Description of how the pathogen requirements are met for each land application of septage
- Description of how the vector attraction reduction requirements are met for each land application of septage



Sample : Site Information

Site ID (Ex: 001)	Site Name (Ex: Name of WWTP)	Site Location (Address or Lat & Long)	Site Owner or NDPDES Permit#	Crops/Vegeta tion During Year *	Land App. (LA) or Disposal Site (DS)?

\* Land Application Sites Only



Sample: Septage Handling

Site ID	Date & Time	Origin of Septage	# Gallons Dumped or Land Applied	# Acres Receiving Septage *	Pathogen Control *	Vector Control *
90 20 50 50 50 50 50 60 60 60						

\* Land Application Sites Only



Sample: Spills

Date & Time	Spill Location	Spill Volume	Type of Material Spilled	Steps Taken to Clean Up Spill



# Questions???

Break!